



VIRACLEAN

Magnetic
Dirt Separator



VIRAPLUS

Magnetic
Deaerator and Dirt Separator



VIRAFIX

Magnetic
Deaerator, Dirt Separator and Hydraulic Balance Tank



VIRADOSING

Chemical Design Pots

MAGNETIC VIRACLEAN DIRT SEPARATOR

TYPE : SD-M

DN 50 - 600



Features

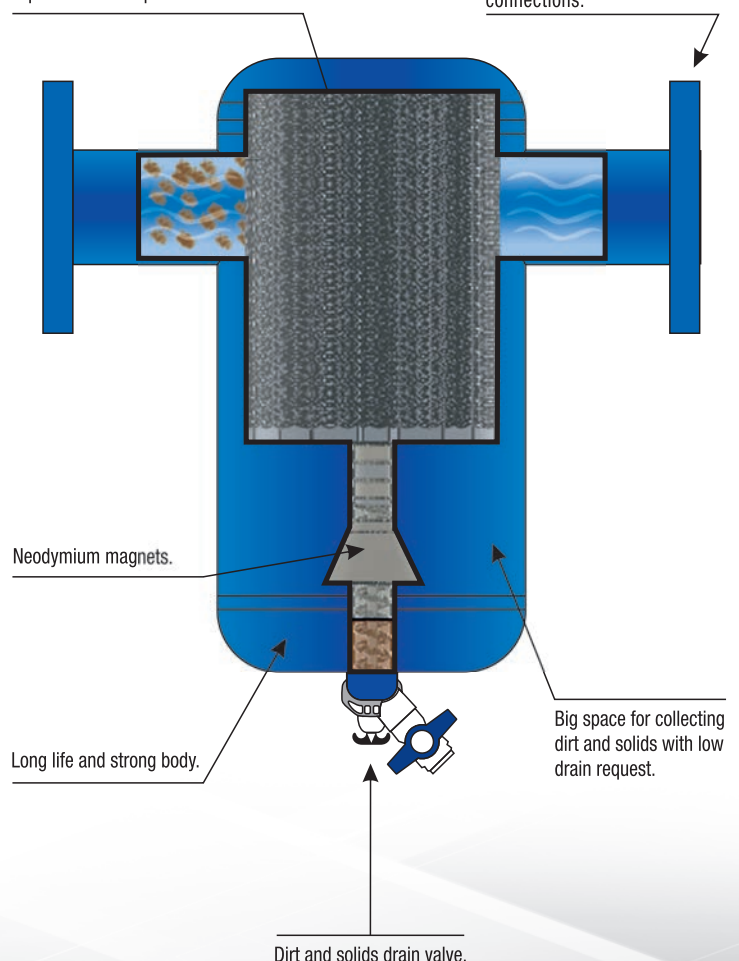
Body	: Carbon Steel - ST37
Connections	: Flanged - Welded End - Grooved
Max. Working Temperature	: 110 °C
Max. Working Pressure	: 10 bar
Strainer Screen	: Stainless Steel
Product Range	: SD-F-M Flanged SD-K-M Welded End SD-V-M Grooved
Size	: DN 50 - DN 600

Applications

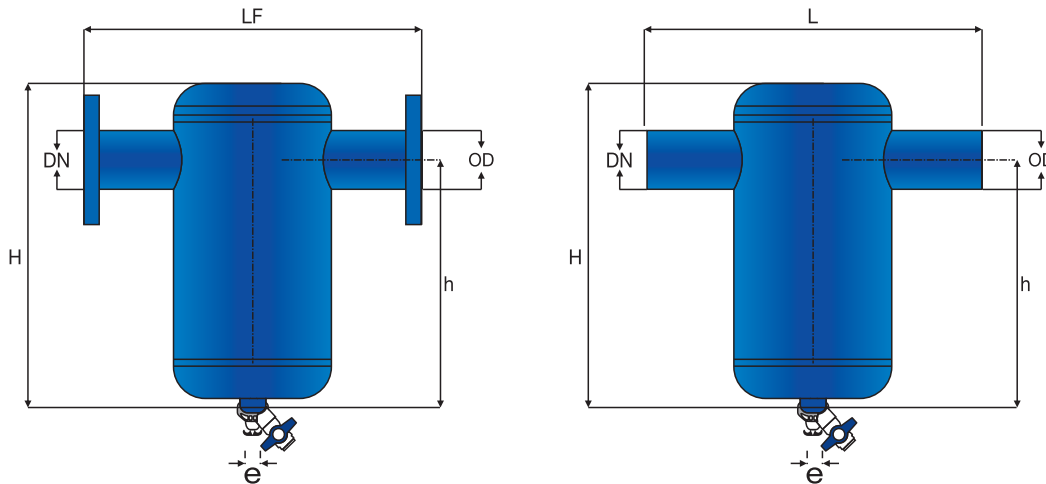
ViraClean dirt separators are installed inline and continuously remove even the smallest dirt particles from the system fluid. Magnetic ViraClean is equipped with a powerful removable magnet that directs its powerful force inwards which ensures extremely effective separation. The new solution brings all the advantages of the highly successful to bigger connection sizes. For even larger applications, we recommend our magnetic ViraClean.

MicroSmart design is the most important part of the system and creates a low velocity area inside of the SMARTTRAP. Flow resistance is too low and high separation solid impurities.

Up to DN 600 standart flange and up to DN 300 welded connections.



Technical Features



TYPE	DN	OD	H	h	e	LF	L	Flanged Weight	Welded Weight	Flow*	Volume
		mm	mm	mm	mm	inch	mm	mm	kg	kg	m ³ /h
SD-M	50	60,3	394	267	3/4"	350	330	16	11	8	6
SD-M	65	76,1	394	265	3/4"	350	330	18	11	15	6
SD-M	80	88,9	519	390	3/4"	470	450	25	16	20	16
SD-M	100	114,3	519	353	3/4"	475	455	28	19	30	16
SD-M	125	139,7	710	454	3/4"	635	615	46	36	50	50
SD-M	150	168,3	710	454	3/4"	635	615	50	39	75	50
SD-M	200	219,1	909	623	1"	775	745	72	60	125	95
SD-M	250	273,0	1139	840	2"	890	860	140	120	200	190
SD-M	300	323,9	1469	1095	2"	1005	975	209	184	275	275

* Flow rates when velocity is 1 m/s.

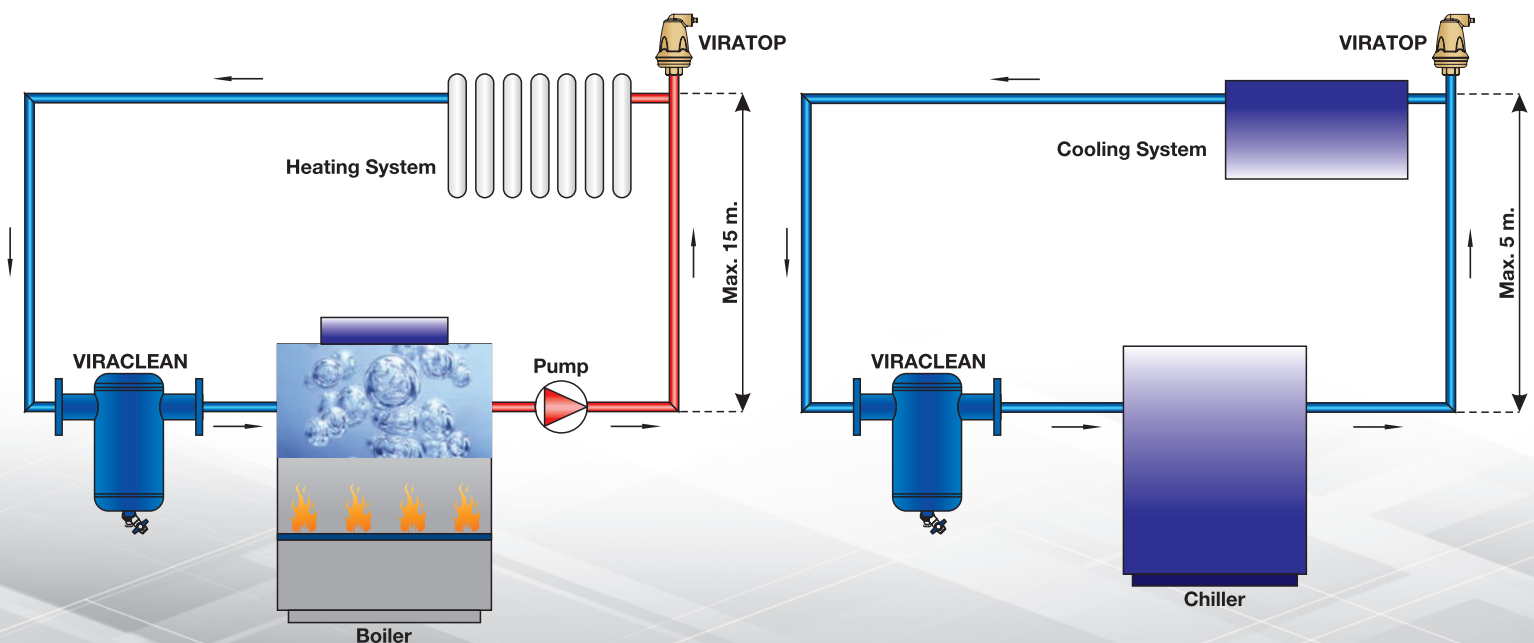
Note : Virra, reserves the right to modify dimensions, material and design without warning.

Installations

VIRACLEAN Dirt Separator should always be installed before equipment (ie. boilers, chillers, controll valves, pumps, etc.) That needs protection from dirt, sludge, etc.

In heating systems this should be in the return.

In chilled water systems the unit must be located in the return close to the chiller.



MAGNETIC VIRAPLUS

DEAERATOR AND DIRT SEPARATOR

TYPE : SC-M

DN 50 - 600

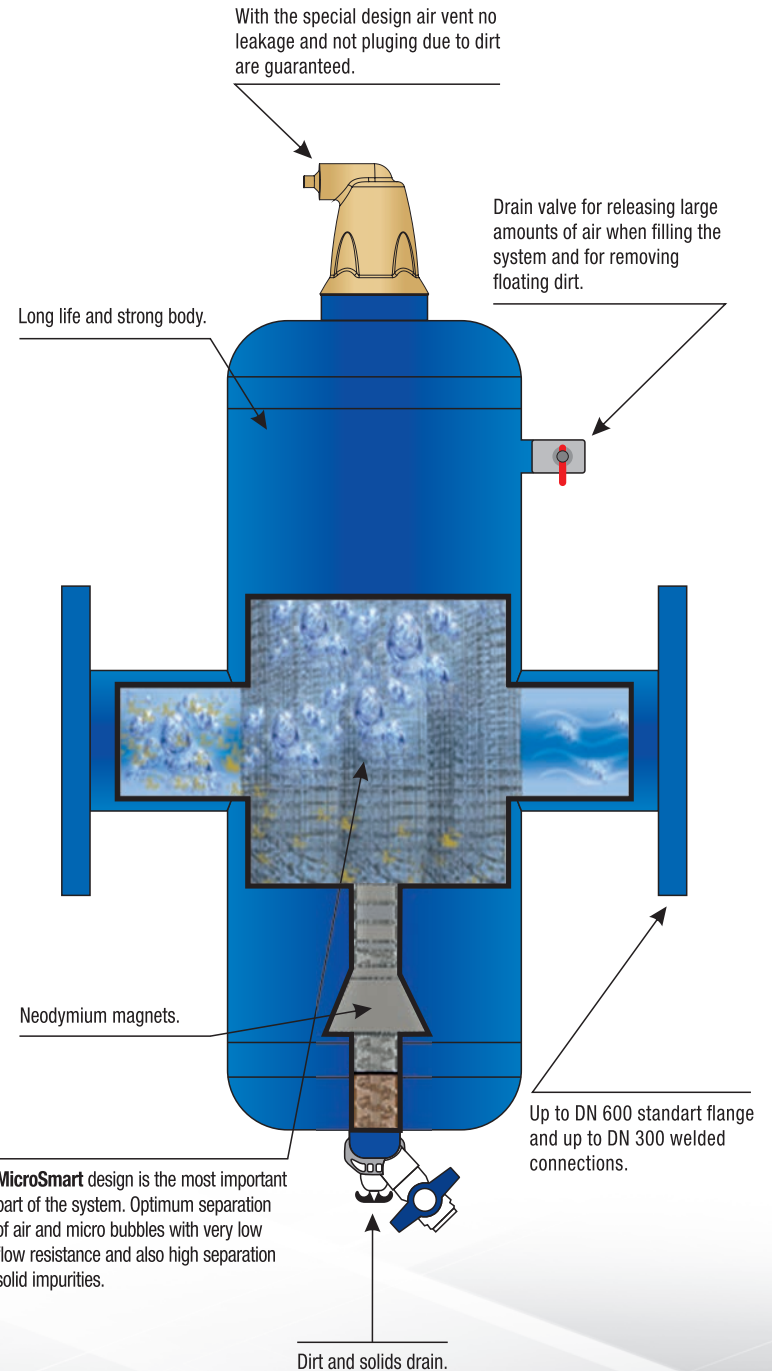


Features

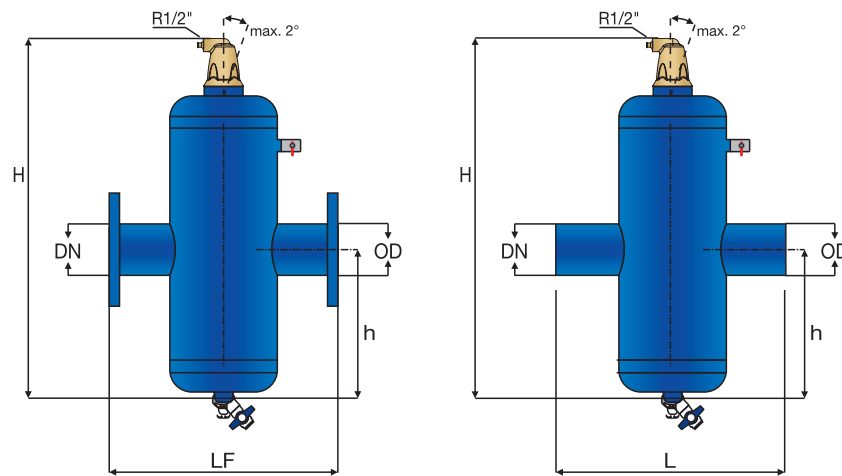
Body	: Carbon Steel - ST37
Connections	: Flanged - Welded End - Grooved
Max. Working Temperature	: 110 °C
Max. Working Pressure	: 10 bar
Strainer Screen	: Stainless Steel
Product Range	: SC-F-M Flanged SC-K-M Welded End SC-V-M Grooved
Size	: DN 50 - DN 600

Applications

Today's highly energy-efficient heating and cooling systems offer optimal performance with water that is free of air and dirt. In untreated systems, air may cause problems such as flow interruptions or even a complete system breakdown. Dirt consists mainly of magnetite, that can accumulate wherever a magnetic field is present. In valves, for example, or heat exchangers, pipes, radiators, pumps and calorimeters. Next to costs associated with repairs, parts and downtime, contamination also leads to reduced system performance and, therefore, higher energy costs.



Technical Features



TYPE	DN	OD	H	h	e	LF	L	Flanged Weight	Welded Weight	Flow*	Volume
		mm	mm	mm	inch	mm	mm				
SC-M	50	60,3	641	265	3/4"	350	330	18	14	8	10
SC-M	65	76,1	641	265	3/4"	350	330	22	14	15	10
SC-M	80	88,9	800	345	3/4"	470	450	29	24	20	24
SC-M	100	114,3	800	345	3/4"	475	455	32	25	30	24
SC-M	125	139,7	1073	480	3/4"	635	615	55	47	50	70
SC-M	150	168,3	1073	480	3/4"	635	615	83	69	75	70
SC-M	200	219,1	1316	615	1"	775	745	105	89	125	140
SC-M	250	273,0	1587	815	2"	890	860	155	134	200	265
SC-M	300	323,9	1911	1120	2"	1005	975	232	206	275	465

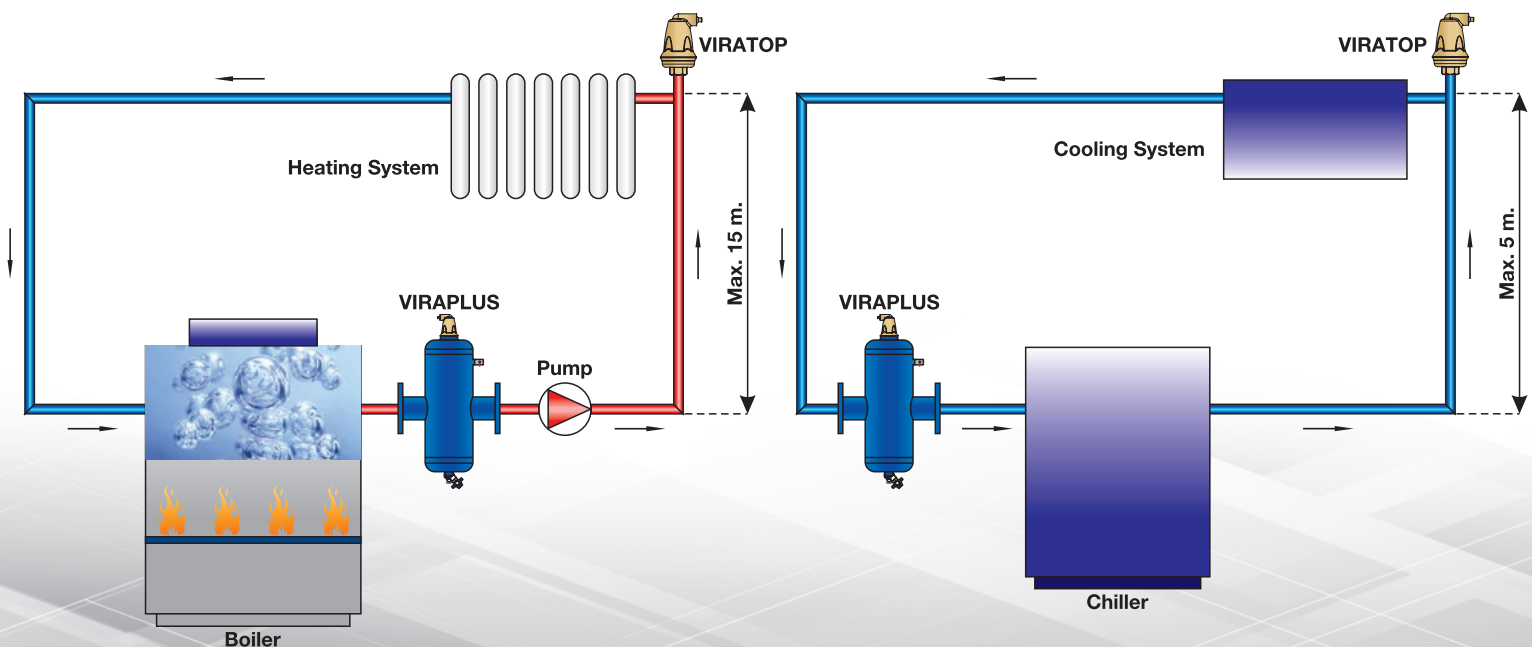
* Flow rates when velocity is 1 m/s.

Note: Vira, reserves the right to modify dimensions, material and design without warning.

Installations

VIRAPLUS is a combination of deaerator and dirt separator which removes circulating air and micro bubbles also dirt effectively. In heating systems the Viraplus should be in the flow and installed after the boiler

In chilled water systems the unit must be located in the return close to the chiller.



MAGNETIC VIRAFIX

DEAERATOR, DIRT AND HYDRAULIC SEPARATOR

TYPE : SCX-M

DN 50 - 600

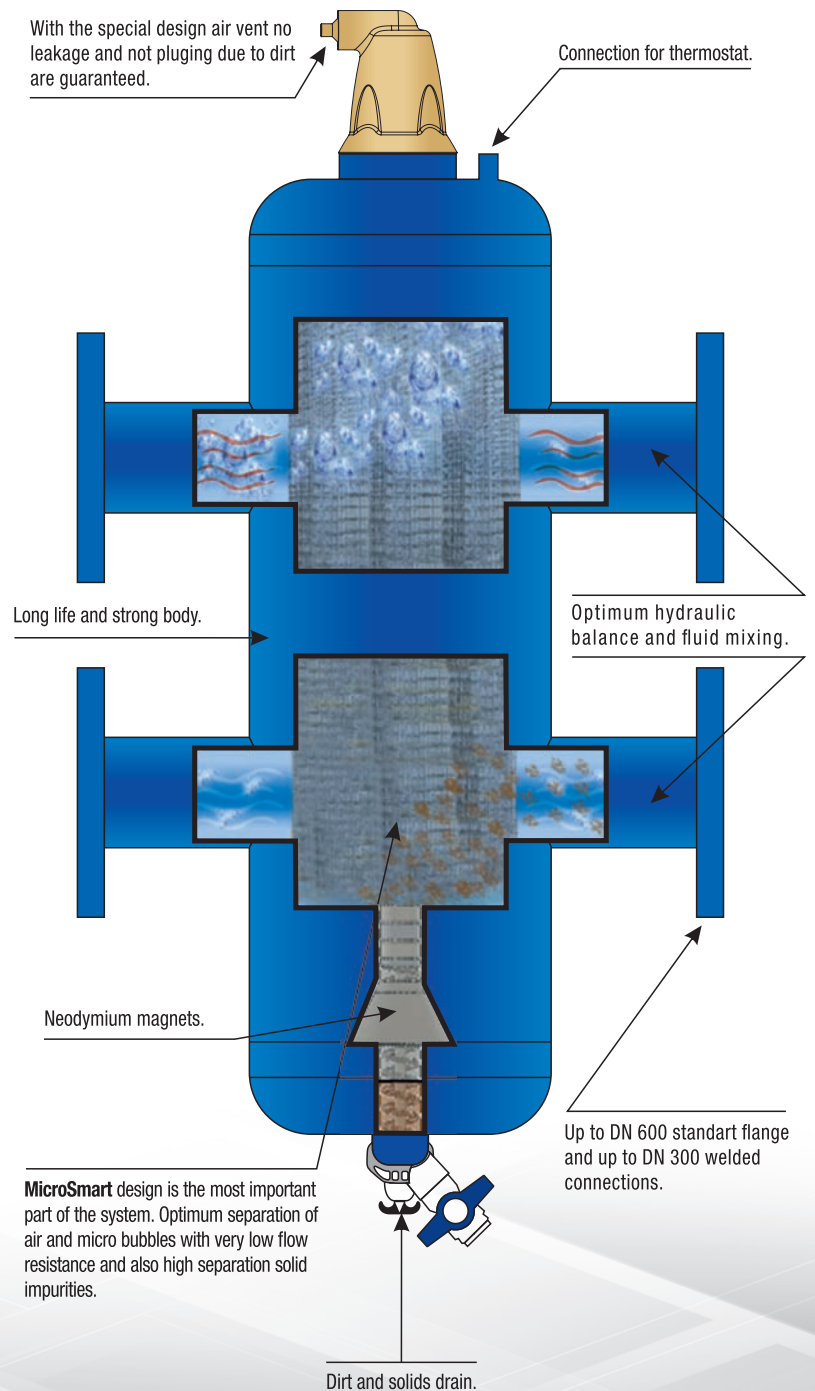


Features

Body	: Carbon Steel - ST37
Connections	: Flanged - Welded End - Grooved
Max. Working Temperature	: 110 °C
Max. Working Pressure	: 10 bar
Strainer Screen	: Stainless Steel
Product Range	: SCX-F-M Flanged SCX-K-M Welded End SCX-V-M Grooved
Size	: DN 50 - DN 600

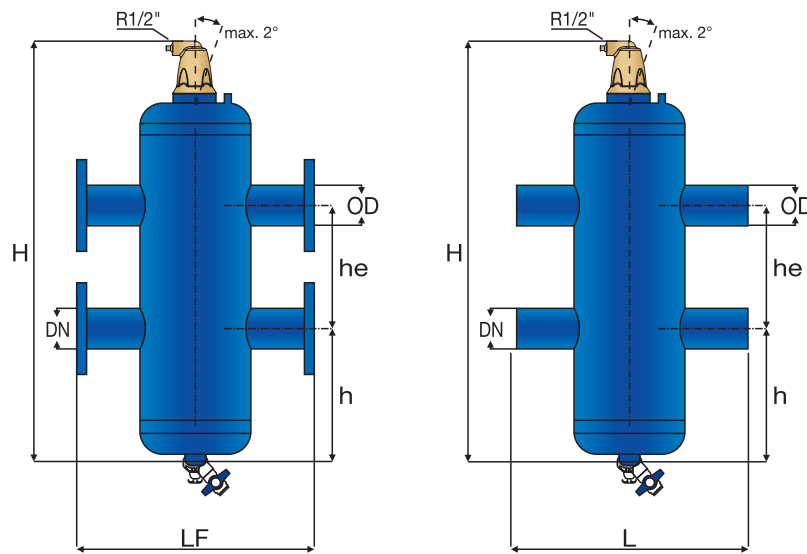
Applications

Increasingly, heating installations are fitted with several boilers. As a result, individual boilers can be switched on or off, depending on the heating requirements. In addition, there are often multiple sub-systems fitted with individual pumps. With these systems there is a chance of hydraulic imbalance which will lead to poor heat transfer, overloading of pumps and a system that is difficult to stabilize. Using a Virafix hydraulic separator prevents this problem, separate micro bubbles and dirt very efficiently and improves the efficiency of the system.



MicroSmart design is the most important part of the system. Optimum separation of air and micro bubbles with very low flow resistance and also high separation solid impurities.

Technical Features



TYPE	DN	OD	H	h	he	e	LF	L	Capacity		Flow*
									($\Delta T=15^{\circ}\text{C}$)	($\Delta T=6^{\circ}\text{C}$)	
		mm	mm	mm	mm	inch	mm	mm	kW	kW	m ³ /h
SCX-M	050/150	60,3	821	248	240	3/4"	350	330	218	87	12,5
SCX-M	065/150	76,1	936	273	305	3/4"	350	330	349	140	20
SCX-M	080/200	88,9	991	273	360	3/4"	470	450	471	188	27
SCX-M	100/200	114,3	1241	348	462	3/4"	475	455	820	328	47
SCX-M	125/300	139,7	1541	448	560	3/4"	635	615	1256	502	72
SCX-M	150/300	168,3	1841	543	670	3/4"	635	615	1884	753	108
SCX-M	200/400	219,1	2345	695	870	3/4"	775	745	3143	1256	180
SCX-M	250/500	273,0	2895	860	1100	2"	890	860	5023	2009	288
SCX-M	300/600	323,9	3411	1020	1295	2"	1005	975	7064	2826	405

* Flow rates when velocity is 1,5 m/s.

Note: Vira, reserves the right to modify dimensions, material and design without warning.

Installations

Installation of a hydraulic separator in a heating system provides proper mixing, when flow in the boiler circuit is different from flow in the distribution circuit. Also VIRAFIX is a combination of deaerator, dirt separator and hydraulic separator which removes circulating air and micro bubbles also dirt effectively.

